

**PURDUE UNIVERSITY**

**International Education and Research  
International Programs in Agriculture**



**PORTUGAL UNIVERSITY  
INSTITUTES  
DEVELOPMENT PROJECT**

**(Contract AID/NE-C-1701)**

**FOURTH SEMI-ANNUAL REPORT  
February 25 to August 25, 1982**

**PORTUGAL UNIVERSITY INSTITUTES DEVELOPMENT PROJECT**

**(AID CONTRACT - AID/NE-C-1701)**

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**FEBRUARY 25, 1982 TO AUGUST 25, 1982**

**Submitted to**

**Agency for International Development**

**by**

**Division of International Programs in Agriculture**

**School of Agriculture**

**Purdue University**

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**INTRODUCTION AND SUMMARY**

This report covers the activities for the fourth semi-annual reporting period of the Portugal University Institutes Development Project. Through this AID funded program, Purdue is assisting in the overall institutional development of three Portuguese institutions:

1. Instituto Universitario da Beira Interior (IUBI), Covilha, Portugal
2. Instituto Universitario de Tras-os-Montes e Alto Douro (IUTAD), Vila Real, Portugal
3. Universidade de Evora (UE), Evora, Portugal

Purdue is assisted by Clemson University under a subcontract. Clemson assists IUBI with various aspects of its Textile Science and Technology program.

At this point the project has been in operation for two years since contract signing. The original project design called for long term advisory assistance only during the initial two years of the

project. Thus, this form of assistance is, in fact, beginning to be phased out as this second year of operation is completed. The long term advisors are working with Portuguese colleagues to ensure that activities initiated can continue. Some consideration has been given to ways in which long term technical assistance advisors could be maintained in Portugal over a longer time span than originally projected. As additional funding is not likely to be available, this will be difficult to arrange.

The long term advisors, Foley, Ahlrichs, and Sanders were engaged in a variety of activities during the period. Each contributed to preparation for, support of and collaboration with short term advisors; preparation of and arrangement for training activities in the U.S.; contributing to the teaching programs of their institution; strengthening linkages with other institutions, private and public; and direct involvement in the research programs of their host institutions.

Nine individuals served short term assignments with the project during this period. Their contributions ranged over a full gamut of project goals and activities. Areas of expertise represented by these short term advisors included: Land use planning and regional development, agriculture marketing and cooperatives, farm management, agricultural development and trade, forage management production and utilization of subterranean clover and associated grasses, agricultural research and extension interactions, rheology and man-made fibers, textile and fiber physics.

Five specialized training programs were initiated in the U.S. for

staff of the university institutes during this period. One academic participant continues work in the U.S. and other placements are being made. An important graduate level course was offered to staff of the IUTAD and other institutions in the general area of agricultural economics. Two courses in the textiles area were taught at the IUBI.

In general terms, important contributions are being made at each of the university institutes. Overall staff development is occurring especially in certain areas, the teaching and research programs are being strengthened, within those areas of project emphasis. Each institution is working on the development of a rational program of outreach to farmers, to cooperatives, to the Ministries of Agriculture, to private industry and other governmental bodies.

Administrative problems continue to demand considerable time of staff in the field and on the campus. Areas of significant problems include identification and assignment of an additional long term staff member, AID approvals related to staffing, international travel, and periodic shortages of escudo funds.

#### PROJECT STAFF

##### Long-term Staff in Residence in Portugal

Three long-term staff remain on assignment as advisors in Portugal at the end of this reporting period. They are:

Prof. John R. Foley, agricultural engineer and extension specialist from Purdue University. Professor Foley continues to serve as overall project coordinator for the project and as Purdue University's project coordinator at Vila Real. He arrived in Portugal on August 20, 1980, and was scheduled to return to

the United States in August 1982. However, Professor Foley, with the concurrence of the Vila Real officials and Purdue, requested a six-month extension which is currently under consideration.

Dr. John H. Sanders, Associate Professor in the Department of Agricultural Economics, Purdue University. Dr. Sanders has been on duty as project coordinator at the University of Evora since March 12, 1981. He is scheduled to end his assignment the middle of March.

Dr. James L. Ahlrichs, Professor of Agronomy, Purdue University. Dr. Ahlrichs arrived in Portugal on January 26, 1981 and will return to the U.S. in January 1983. Dr. Ahlrichs continues to serve as long-term Visiting Scientist at the university institute at Vila Real.

#### Short-term Professional Staff

During the past six months, a greater number of short-term advisors have been in Portugal than at any other time since the beginning of the project. A total of eight individuals were at the university institutes from the first of May until the latter part of July. Four were at Vila Real, two at Evora and two at Covilha. Their activities are described in the section of this report entitled "Project Activities."

#### On-campus Staff--Purdue and Clemson Universities

Dr. James L. Collopy, Associate Director of International Programs in Agriculture, Purdue, was designated as the on-campus project

coordinator at the beginning of the project. Dr. Collom continues to serve in this capacity.

Vivian L. Rider, Purdue University, was designated as the administrative assistant/executive secretary for the project in September 1980. She remains in this position.

Dr. Hassan Behery, Department of Textiles, Clemson University, continues in his role as Clemson University's on-campus coordinator. Purdue University has a subcontract with Clemson to provide training, advisors and administrative support for the textile component of the project.

#### PROJECT ACTIVITIES

##### Long-term Professional Staff Activities

Three long-term advisors remain in residence at two of the Portugal university institutes--two at Vila Real and one at Evora. They have been involved in a number of project activities in addition to their administrative duties. The following illustrates but a few of their varied activities. Monthly reports covering the activities of each of these individuals have been submitted to AID and to the institutes.

Prof. John R. Foley, Vila Real. The past six months at Vila Real have been extremely busy. Four short-term advisors were at the IUTAD during a three-month period--Drs. R. Taylor, M. Martin, L. Garoyan and M. Collins. Professor Foley spent considerable time in preparing for and coordinating their visits with the institute staff. He made arrangements for and assisted with presenting an Agricultural

Economics course which was given by Drs. Taylor, Martin and Garoyan during May and June.

Professor Foley prepared five trainees for departure to the United States which entailed assisting 15 students to prepare for and pass their English language exams in Porto. In addition to these 15 students, he worked out the details for an additional 13 trainees to be at Purdue and the University of Wisconsin for a six-week extension training workshop during September and October 1982.

IUTAD administrators asked Professor Foley to help organize equipment for various labs and shops for a new normal school which was recently built at Vila Real, Portugal, and which will be operated cooperatively with the university institute at Vila Real. He was also asked to review the plans and assist in discussions for a new vocational agricultural and home economics school at Vidago.

Professor Foley's two-year assignment was to end in August. However, during the past several months, he has been negotiating with AID and Purdue to extend his assignment for six months. Both the IUTAD and Purdue concur on the extension but, to date, official approval has not been given by USAID Lisbon.

Dr. John H. Sanders, University of Evora. A large amount of Dr. Sanders' time was spent during this period carrying out project administrative activities. He developed plans of work and arranged for the visits of two short-term advisors (Drs. E. D. Carter and E. O. Heady) during the summer months. After their arrival, he assisted them in their work and accompanied them on tours of farms and extension facilities of the region. He also finalized plans for two

additional advisors who will be at Evora in the fall (Dr. J. B. Outhouse and Dr. C. L. Rhykerd) and for five trainees to depart to the United States by September 18.

Dr. Sanders assisted the Department of Economics staff of Evora in completion of several research projects and completion of: (1) a mimeo on cereal productivity; (2) the EIPO sheep stocking rate paper; and (3) a preliminary version of research priorities which is now available in mimeo.

Dr. Sanders presented several seminars, including a seminar in Lisbon for agronomy graduate students on farming systems and new technology; presented similar seminars to MAP and UE undergraduates; and gave a seminar at Vila Real in July on the evaluation of new agricultural technology. He worked out the details for PROCALFER people to come to the University of Evora and for Evora faculty to go to Lisbon to attend seminars presented by short-term advisor Dr. Earl O. Heady.

At the request of the Reitor, Dr. Ario Lobo Azevedo, he assisted the University of Evora to prepare a proposal for supplementary funds for submission to MEU and USAID. He attended several Conselho Cientifico meetings on university organization and hosted several administrators of the PROCALFER Project, Mr. Glen Purnell and Mr. James Black.

In August, Dr. Sanders and Dr. Eduardo Figueira conducted a thorough review and evaluation of the project's training program for Evora, both past and future. Dr. Sanders requested the involved UE department heads to update their planning and nominate candidates for

future training in the United States.

Dr. James L. Ahlrichs, Vila Real. Dr. Ahlrichs, in his role as visiting scientist at the IUTAD, and the soils department staff have been involved in a number of research activities. To highlight a few, they have completed an extensive collection of scientific articles on soil acidity, liming, etc. They collected a second round of 17 foliage samples and have completed the first grape leave tissue analyses. They also collected their first vineyard soil for greenhouse experiments on grape root response. A report on the acidity research was completed. Dr. Ahlrichs and the soils group have initiated bi-weekly staff meetings to discuss teaching and research activities.

Dr. Ahlrichs reports that nearly all of the soil laboratory equipment purchased by PROCALFER project funds has arrived at Vila Real and is installed. He is now introducing the new equipment and new routines for its use in the soils laboratory.

Two new English classes were commenced by Dr. Ahlrichs to aid the faculty to develop their English competency. The classes meet on Tuesdays and Thursdays from 5 to 7 p.m. Dr. and Mrs. Ahlrichs prepared English dialogue tapes and spend up to an hour with the trainees on dialogue and conversation during the classes. Dr. Ahlrichs also produced a set of sample letters for use by the faculty as a guide to writing letters in English.

Dr. Ahlrichs assisted Professor Foley in preparing for short-term advisors, visitors to IUTAD, and trainee preparations for departure to the United States. He held consultations with faculty from various

IUTAD departments relative to research and study leaves.

Short-term Professional Advisor Activities

A number of short-term advisors were on assignment at each of the institutes. One advisor, included in the last semi-annual report, completed his assignment during this reporting period. A summary of their activities follows:

Dr. Dennis Johnson, private consultant from Houston, Texas, completed his tour-of-duty at Evora on March 3, 1982. He served as a technical advisor in the area of land use planning and regional development.

At Evora, he met with numerous faculty members, technical staff as well as public agencies at Evora and Lisbon to discuss completed projects, programs underway and in the planning stage which pertained to the area of his consultancy. Dr. Johnson organized and participated in an inter-agency workshop at the University of Evora which dealt with techniques and methodologies of zoning and rural land use.

He organized and presented, in Portuguese, a university seminar on the topic of space arrangement and rural development. He assessed local data resources (i.e., maps, aerial photographs, technical reports, etc.) and suggested how they might better be utilized on an inter-agency basis for land use planning and regional development of the Alentejo.

Dr. Leon Garoyan, Cooperative Extension Service, University  
of California, Davis, California

Dr. Marshall Martin, Department of Agricultural Economics,  
Purdue

Dr. Robert Taylor, Department of Agricultural Economics, Purdue,  
were simultaneously at the university institute at Vila Real. The  
primary purpose of their assignment was to organize and teach a  
graduate level course/seminar. Drs. Martin and Taylor commenced their  
work on May 9 and returned to the U.S. on June 15. Dr. Garoyan  
arrived on May 15 and returned on June 14.

The course was an intensive four-week credit course/seminar and  
was attended by IUTAD faculty, Ministry of Agriculture personnel,  
Commerce and Fisheries regional staff, staff from the Financial  
Support Institute for Development of Agriculture and Fisheries, and  
cooperative managers. It emphasized the problems of organization,  
management, Portugal's future entrance into the European Common Market  
and agricultural development policies. Twenty five individuals  
attended the course. Seven earned graduate level Purdue credit. The  
course is described in detail under the "Educational and Training  
Programs" section of this report.

The secondary objective of the advisors' visit was to interact  
with faculty at the IUTAD on potential research activities and to  
review their teaching programs.

Dr. Michael Collins, Department of Agronomy, University of  
Wisconsin, accepted a three-week assignment at Vila Real--from July 17  
to August 7, 1982. Dr. Collins provided expertise in the area of  
forage management and quality. Specifically, he provided advice and  
assistance to staff members working on forage production and

utilization. He provided research support to A. M. Ferreira in field and laboratory experiments pertaining to corn silage. Mr. Ferreira is scheduled for training at the University of Wisconsin during April and May.

Dr. Edward D. Carter, Department of Agronomy, University of Adelaide, South Australia, was at the University of Evora as an advisor from May 8 to June 8, 1982. He served as a forage agronomist as it applies to production, utilization and management of grassland crops. He was asked to define a research agenda for subterranean clover, combination of grasses, and hay and silage technology and composition. Since Dr. Carter has not as yet submitted an end-of-tour report, further details of his activities are not available. Dr. John Sanders did report, however, that Dr. Carter's visit resulted in important contributions to the University research program and that the University of Evora would like to reschedule another visit by Dr. Carter in 1983.

Dr. Earl O. Heady, Director, Center for Agricultural and Rural Development, Iowa State University, served as an advisor at the University of Evora from June 12 to July 23, 1982. He assisted in the development of teaching, research and extension activities in collaboration with the staff of Economics and Management and Agronomy and Animal Science Departments.

Upon his arrival in Lisbon, he met with USAID Mission and PROCALFER personnel. He presented a seminar at the Estacao Agronomica Nacional for scientists from that institute, the Gulbenkian Institute and other research institutes and organizations in Lisbon.

While at Evora, Dr. Heady reviewed research programs and facilities of the institute and met with the Reitor, the Director of the Mitra Experiment Station, the Head of the Agronomy Department and staff members of the Department of Economics and Management. He presented an informal seminar on interrelationships among agricultural research, extension, agricultural marketing conditions and availability of resources and technology. He also presented a two day seminar for the Mitra agronomy faculty and a four-hour seminar for agricultural extension administrators and specialists of the Alentejo region, in conjunction with M.A.P.

He reviewed and visited research programs and facilities at the regional agricultural research institute at Elvas; the university farms' field plots; a cooperative winery; grape fields; the university farms at Beja, Elvas and in the Alentejo.

A substantial amount of Dr. Heady's time was spent in counseling with members of various departments at Evora on research problems and methodology. Discussions were held with the PROCALFER Transportation Team and the EEC Accession Team. He assisted the Department of Economics, Management and Agronomy to evaluate and inventory economic and technical problems of agriculture and discussed with them their teaching programs, classes and curricula.

Dr. Dan D. Edie, Chemical Engineering Department, Clemson University, was at the university institute in Covilha from May 1 to June 30, 1982. The general objective of his assignment was to provide expertise in the area of rheology with emphasis on the application of rheology to man-made fibers. The specific objective was to teach an

eight-week course on rheology and to identify potential research topics in this area for IUBI staff.

During his visit, Dr. Edie worked closely with Mr. Mario Figueiredo Nunes. Mr. Nunes assisted Dr. Edie with the presentation of the rheology course and an industrial seminar on man-made fibers. Mr. Nunes acquired sufficient training in this area to enable him to present courses to upper level IUBI students.

Dr. Edie prepared a course outline and a printed text of all lectures presented prior to his departure from the States. At the beginning of the course, he provided each participant with a copy. He prepared the text to meet two objectives: (1) to help the faculty and students better understand the material; and (2) to provide IUBI with a course that stressed application of rheology rather than theory.

In addition to teaching the course, Dr. Edie met with IUTAD staff to determine how rheology tests could be included in on-going chemistry laboratories. As a result, tests were developed and implemented in an upper level chemistry lab. Dr. Edie also suggested other experiments and research that could be carried out and will continue to provide necessary technical assistance after his return to Clemson.

Dr. Hassan Behery, Textile Sciences, Clemson University, was at Covilha from June 1 to July 15, 1982. His visit was two-fold. He served as an advisor in the area of textile and fiber physics and, as the Clemson on-campus project coordinator, discussed administrative matters of the project with USAID Lisbon and with the Covilha administrators.

One of the specific objectives of the visit was to teach a course on fiber and textile physics. The course began on June 7 and ended on July 12. Material covered included mechanical properties of fibers, theories of mechanical properties of fibers and electrical properties.

Three one-day workshops were organized and presented by Dr. Behery. The workshops were held for laboratory technicians and supervisors from textile mills in the Covilha region. The purpose of the workshops was to provide training in the use of new equipment received by IUBI. Workshops are held for industry personnel in order to help build and strengthen the relationships between IUBI and the textile industry.

Dr. Behery also presented three seminars during his visit. The first one was for 30 technicians from the textile fiber industries and 30 students and faculty. The second was carried out in conjunction with staff from the National School of Textile Industries of Mulhouse, France. The third one was presented for 15 IUBI senior students.

Two days a week, Dr. Behery assisted with the installation of a large quantity of new testing equipment and provided training for its use. Eng. Mario Nunes, with Dr. Behery's help, familiarized himself with the scope, function and procedures of the equipment in order to train other staff in its use.

Dr. Behery provided special assistance to two graduating seniors on their research projects. He assisted with preparing the necessary paper work for two trainees to leave for the U.S. and for four other Master of Science degree candidates to commence training at Clemson.

During his stay, Dr. Behery met with AID Mission personnel and

IUBI administrators to review Clemson's responsibilities to the project and to discuss the revised schedules for trainees and advisors to be provided by Clemson.

#### PROCALFER (Ministry of Agriculture/USDA) Project

The PROCALFER and Portugal Institutes Development projects continued joint cooperative efforts during the past six months. The interaction included holding joint seminars, sharing advisors and soil testing equipment. A few examples are listed below.

The soil testing laboratory equipment, purchased out of PROCALFER funds, is now in place at Vila Real. It is being introduced to the staff at IUTAD and new routines are being established for its use. The university institute will conduct soil testing for PROCALFER personnel, as needed.

Dr. Earl Heady, during his advisory assignment at Evora, presented a seminar at UE which was attended by PROCALFER staff. PROCALFER then invited Dr. Heady to present a seminar in Lisbon and this was, in turn, attended by members of the university institute at Evora.

Two PROCALFER advisors who were on short-term assignment in Portugal visited the institutes at Vila Real and Evora. Dr. Ellsworth Christmas visited Vila Real in April, and Dr. William Dahake was at Vila Real and Evora.

PROCALFER staff have been invited to attend the Extension Training Workshop to be held at Purdue in September for trainees from the three Portuguese universities. PROCALFER has agreed to help

finance the workshop and negotiations are now underway to work out the financial arrangements.

Dr. James L. Collom remains as the co-chairman of the PROCALFER Advisory Committee.

#### Efforts to Identify Project Staff

Due to the increased number of short-term advisors scheduled for the second and third years of the contract, the administrative staff at Purdue and Clemson have devoted a considerable amount of time in identifying and preparing individuals for overseas assignments.

Purdue continues its effort to place a long-term advisor at Covilha to replace the position left vacant by Dr. Julian Atkinson.

#### Revised Implementation Plan

Purdue received official notification from the AID Mission that the revised version of the Implementation Plan (IP) had been ratified and should now be used as a working document. This resolved some confusion which resulted from not knowing whether to follow the original trainee and short-term advisor schedules or the revised IP schedules. Plans are now underway to amend the Purdue/Clemson subcontract. This is necessary due to the increased number of Clemson advisors and trainees scheduled for Covilha.

#### Miscellaneous Project Activities

The request by Dr. James Ahlrichs for donations of scientific journals to strengthen the Portuguese university institutes' libraries

continues to generate responses from Purdue faculty. In addition to donations reported in previous reports, almost three complete sets of Forestry Journals (dating from 1950 to 1981) have been shipped to Vila Real. In addition, a set of Ecological Society in America bulletins (from 1971-1980) have been donated and eleven reference books on statistics, a book on genetics of livestock improvement have been given to the Vila Real library.

#### EDUCATIONAL AND TRAINING PROGRAMS

##### Agricultural Economics Seminar/Workshop

An agricultural economics graduate-level course and seminar was presented at Vila Real by Dr. Robert Taylor, Dr. Marshal Martin and Dr. Leon Garoyan. The three consultants divided the period from May 20 to June 9 into 26 two-hour sessions which were held each day from 4:30-6:30 p.m. and from 7:30-9:30 p.m. Three field trips on consecutive Saturdays were also part of the seminar.

Three major topics were presented. Dr. Garoyan was responsible for the area of marketing and farm cooperatives; Dr. Taylor for farm management; and Dr. Martin agricultural development, trade and policy.

Twenty-seven individuals enrolled for the course/seminar and an average of twenty-five enrollees attended regularly. Each of the trainees was offered an opportunity to earn one graduate credit from Purdue. In order to receive credit, they were required to write a paper, under the supervision of one of the advisors, in addition to participating in the course classes.

Seven individuals opted to take the course for credit. They were

presented with a special diploma during a graduation ceremony chaired by the Reitor of Vila Real. In addition, twenty-five received certificate for completing the course.

The participants were asked to give a written evaluation of the course during the last session. The students indicated that the seminar was most beneficial and unanimously endorsed having similar seminars in the future covering other subject matter. A special, final evaluation session was held with the Reitor, the three consultants and Professor Foley on June 9.

#### Extension Training Workshop

Plans are being completed for a six-week Extension Training Workshop. The workshop will be held at Purdue University the latter part of September 1982. The participants will also spend several weeks at the University of Wisconsin.

It is anticipated that approximately 13 individuals from Vila Real, Evora and the PROCALFER project will attend the training program.

The objectives of the workshop will be to:

1. observe U.S. extension systems at all levels--federal, state and local;
2. observe the link between research and extension, especially the evaluation of programs, demonstrations, and identification of needs for future research;
3. observe methods used in evaluation of technology transfer and the relationship between researchers and county extension

agents;

4. outline a plan of work for future extension activities in Portugal based on acquired knowledge.

#### Advanced Degree Educational Programs

At this time one Portuguese trainee is pursuing graduate work in the United States.

Jose Mendes Lucas, from the university institute at Covilha, is enrolled in graduate school at Clemson University. He commenced his program for a Master of Science Degree in Textiles during the 1982 spring semester and is expected to receive his degree around June 1, 1983.

Arrangements are being made for placement of additional university institute staff in U.S. graduate programs.

#### Non-Degree Specialized Training

Four Portuguese trainees commenced specialized courses in the U.S. and one completed training during this reporting period. The trainees include:

Alberto Santos, Vila Real, Portugal. The objectives of Mr. Santos' training were to learn the techniques and methods of micropropagation of nut tree rootstocks and walnut budding/grafting. Upon his return to Portugal, he plans to use information obtained from his visit to set up a laboratory for micropropagation of nut trees. He worked with faculty at the universities of Purdue, Florida, Georgia, Missouri, California/Davis, and Oregon State University. His

training commenced on July 5 and ended on July 29, 1982.

Nuno Moreira, Vila Real, Portugal. Mr. Moreira arrived in the United States on July 20 and returned to Vila Real on August 30, 1982. His program was designed to study methods of applied research of forage and pasture production/management. Mr. Moreira spent one month at Purdue working with Dr. Charles Rhykerd; studied research underway at the Agronomy Department, University of Wisconsin; and worked with Dr. Raguse on Mediterranean dry pastures at the University of California, Davis.

Maria Teresa de Amorim, Covilha, Portugal. Dr. Amorim is currently at Clemson University for a two-month specialized training program in order to obtain further knowledge about polymer modification, degradation and development of new polymers for fiber production. Dr. Amorim commenced her training on August 15 and is expected to return to Portugal on approximately October 15, 1982.

Jose Miguel Fiadeiro, Covilha, Portugal. Dr. Fiadeiro arrived at Clemson University on August 15 and will complete his studies on approximately October 15, 1982. The training program will cover effluent treatment and energy savings in textile industries and will allow him to become more familiar with the latest technology and research activities in this area.

#### COMMODITIES FOR PROJECT USE

During the past six months, a variety of purchases were made from the dollar budget for on-campus use and for the university institutes. The purchases included:

1. audio tapes for Vila Real
2. statistical software for the computer at Covilha
3. brass sieves, vinyl resin, filters and micro nylon net for soils research at Vila Real
4. a number of books reprints and journal articles for Vila Real and Evora
5. peninsular Portuguese text book and tapes for use by advisors preparing for short-term assignments
6. miscellaneous office supplies

#### ADMINISTRATIVE AND LOGISTICAL ISSUES

Several issues have arisen which are causing concern on our part and for which no resolutions have been found. For example:

##### Salary Approvals

We have been experiencing difficulty in obtaining AID/W approval for merit raises awarded by Purdue to long-term staff in the field if the raise increases their salaries above the FSR-1 level. It is the policy of Purdue to give merit raises to all university employees at the beginning of the fiscal year (July 1). AID and Purdue have a long standing agreement that staff assigned to AID projects are to be treated equally to on-campus staff in regard to raises, promotion, etc.

As an example, one staff member received a merit raise on July 1, 1982, which raised his total salary level above the FSR-1 level. In June of 1982, the Purdue contract office wrote to AID/W and requested

a waiver of level to permit the raise to be implemented. On November 2, 1982, the AID Contracting Officer responded stating that they saw no justification for additional salary incentive payments. The long delay in response and the failure to approve jeopardizes Purdue's ability to staff this project.

The same holds true for short-term advisors. If their salaries, plus the normal contractual overseas incentive, exceeds the allowable level, their appointments have been denied with AID requesting staff to take a cut in pay for the length of their assignment. Several advisors have agreed to take a cut but it is getting exceedingly difficult to find people who are willing to do this. Purdue has been requested and the Portugal institution expect us to provide the most qualified people we can and who will benefit the program the most. This cannot be accomplished if we must acquire advisors on the basis of salary standards rather than qualifications. This is particularly difficult where the approach in use is one in which the university institutes request individuals rather than providing general job descriptions.

#### Six-day Work Weeks in the Field

Several short-term advisors have been requested to work six-day weeks during the course of their assignments. Since the scope of work did not reflect the six-day weeks, this additional time was not indicated in Purdue's request to AID/W for appointment approval. We then have had to request an after-the-fact approval from AID/W. We have been informed that the longer work weeks must be included in our

original request or they will not be approved.

All long-term advisors in the field, and their colleagues in the university institutes who are involved in preparing scopes of work must be sure to include request for longer work week in the work plans, whenever they are likely to be needed.

#### Shortage of Escudo Funds

From time to time, unavailability of escudo contract funds has been causing difficulties for the cooperating universities and project staff.

The program calls for the Government of Portugal to provide matching funds and earmark them for specific in-country project expenses. The funds were to be distributed to each of the three institutes by the Ministry of Education. These funds have recently been distributed to the institutes in small increments (approximately \$70,000). Requests for additional escudos will not be honored until the previous allotment is almost depleted and it takes from one to five months to receive the new allotment.

When the funds run out, the universities are forced to borrow from other available university funds and repay them when the next appropriation arrives. After repayment is made, the new funds are almost depleted after several weeks. If a new request is again issued in a week or so, the Ministry is not receptive because money was sent just two weeks earlier. This process is affecting the ability of contractor and institute staff to carry out the project activities. Further, due to borrowing from other funds, it may be negatively

affecting normal institute functions.

To illustrate the seriousness of the situation, three recent short-term advisors were without their subsistence allowance for a month. The long-term advisors have had to pay as much as \$2000 out-of-pocket in order to cover project expenses. At one of the institutes, short-term advisor prepaid tickets were being charged because they did not have funds to pay for them. Their credit was eventually cut off because the bill could not be paid.

The lack of funds has and is continuing to cause problems for the universities and the long-term advisors. It is consuming substantial amounts of project staff and Portuguese counterparts' time, which is diverted from project objectives.

#### Foley Extension

The institute at Vila Real has requested that Professor John Foley extend his tour-of-duty as long-term advisor for another six months. The feasibility and funding for such an extension is currently being discussed between AIB/W, USAID/Lisbon and Purdue. If approved, Professor Foley will return to the United States in February 1983.

#### Covilha Long-term Advisor

The search continues for a long-term advisor to serve at Covilha. In May 1982, Purdue received a revised profile from Covilha, via the Mission, stating the qualifications and experience the long-term professional should possess. After receiving this document, a new

position announcement was developed and sent to a number of U.S. universities (including the Universities of Massachusetts, Rhode Island, Colorado, and Clemson). It was also distributed to the appropriate schools and departments at Purdue.

As a result, several well-qualified individuals were identified and encouraged to consider the position. One of them, Dr. Donald King, professor of Organizational Behavior, Management and Psychology of the Krannert Graduate School of Management at Purdue, expressed interest in becoming a nominee. He agreed to stop-over in Lisbon on his return to the States from South Africa to visit with Mission personnel, and the Ministry of Education authorities. He was also scheduled to travel to Covilha, meet with Reitor Passos Morgado and other university officials and tour the institute and surrounding area. As it turned out, Dr. Morgado was not available when Dr. King arrived in Portugal and he was unable to visit the university institute.

Upon his return to Purdue, Dr. King informed us that he was not interested in being considered for the position at this time.

Several other inquiries for additional information have been received and we are following-up on them as well as seeking other nominees.

### Project Implementation Plan

As reported in the last semi-annual report, Purdue had not received official notification that the Implementation Plan submitted by Purdue in April 1981, and revised at the November 1981, project

evaluation meetings had been ratified. During this reporting period, we received a telex from USAID/Lisbon informing Purdue that the Plan had been approved and was to be considered as a working document for project activities.

#### Travel Arrangements

The procedure for issuing prepaid ticket authorization (PTA) from escudo funds continues to plague the effective operation of the project. PTA's continue to arrive late or not at all, they are sometimes issued incorrectly, and they are limited to the use of Portuguese air carriers thus reducing flexibility in scheduling and complicating ticket issue at remote airports in the U.S.

We are still attempting to resolve this problem.

#### Amendment of the Clemson Subcontract

Clemson has requested that their subcontract with Purdue University be amended to accommodate the increased number of Covilha trainees and advisors. The subcontract calls for Clemson to assist Purdue with the textile portion of the project by assigning Clemson staff with expertise in textiles and related areas as advisors to Covilha. Further, they are to receive trainees from Covilha as well as other individuals associated with the project.

Since the revised Covilha schedule includes a substantial increase in the number of trainees and advisors, it is necessary to amend the subcontract to reflect these changes. Dr. Collom plans to travel to Clemson in September to discuss the amendment and other

administrative matters of the project. Clemson will be requested to submit a proposal providing the expected budget changes reflecting the increased scope of work.

#### PROJECTED ACTIVITIES FOR NEXT SIX MONTHS

A number of activities will be undertaken and/or completed during the next six months of the project. The most significant will be to:

1. Identify and place a long-term advisor at the university institute of Covilha.
2. Finalized plans and conduct an Extension Training Workshop to be held at Purdue in September 1982 for approximately 13 PROCALFER and project trainees.
3. Provide a sharply increased number of short-term advisors to each of the cooperating universities. Advisors scheduled for the next six months include:
  - a) Dr. James B. Outhouse - two months at Vila Real and three weeks at Evora, in Livestock Management Systems.
  - b) Dr. Truman Martin - two months at Vila Real in Artificial Breeding/Reproduction.
  - c) Dr. Stephen Bunting -- two months at Vila Real in Forest Products Technology and Fire Control.
  - d) Dr. Garth Spencer -- two months at Covilha in Chemical Degredation of Fiber.
  - e) Dr. Charles Rhykerd -- three months at Evora in Forages.
4. Continue development and administration of programs for

academic and non-academic trainees from the three Portuguese institutes. The projected number for the next six months is eleven.

5. Amend the subcontract between Purdue University and Clemson University.

#### PROJECTED BUDGETARY SUPPORT

A modified dollar budget was submitted to USAID following the 1981 annual project evaluation meeting. The revision was necessitated by the increased number of advisors and trainees.

The amount of the original four-year contract was for \$2,897,425. The revised budget increased the proposed contract amount to \$3,040,682. This represents an increase to Purdue in the amount of \$143,257 for expenses incurred during the remainder of the contract. The increase has not as yet been received, however.

A dollar budget summary is included in this report as Table 1.

**TABLE I**

**DOLLAR BUDGET FOR PERIOD ENDING 9/30/82**

**Dollar Budget, Portugal University Institutes Development Project**  
**Life of Project Funding, 1980-1984**

	Total 4 Year Budget	Year 1 Budget	Year 2** Budget	Spent/ Committed Thru 9/30/82	Balance Years 1 and 2	Year 3** Budget	Year 4** Budget	Four Year Balance
Salaries and Wages	\$1,152,472	\$ 362,010	\$ 451,036	\$ 547,573	\$ 265,473	\$ 246,413	\$ 93,013	\$ 604,899
Fringe Benefits	530,543	107,054	127,669	98,706	136,017	70,545	25,275	231,837
Travel & Transportation	43,015	16,175	9,670	7,374	18,471	13,170	4,000	35,641
Participant Training	629,695	152,250	245,775	119,382	278,643	87,820	143,850	510,313
Other Direct Costs	46,700	15,500	15,500	51,308	(20,308)	11,400	4,300	(4,608)
Indirect Costs	695,000	217,295	262,813	262,445	217,663	152,387	62,505	432,555
<b>TOTAL</b>	<b>\$2,897,425</b>	<b>\$ 870,284</b>	<b>\$1,112,463</b>	<b>\$1,086,788</b>	<b>\$ 895,959</b>	<b>\$ 581,735</b>	<b>\$ 332,943</b>	<b>\$1,810,637</b>

\*Actual expenses for Purdue portion of contract thru 8/31/82 only. Purdue 9/82 expenses estimated.  
 Clenson subcontract only billed for expenses through 5/31/82, so figures shown include estimates for  
 Clenson for 6/82 through 9/82.

\*\*Calculations based on original contract budget, not on revised budget figures submitted by AID/W and AID/Lisbon  
 on 12/18/81.